

an integrity verification test may be performed. Where a system integrity error is determined, the system may alarm the user appropriately.

[1018] In other embodiments, a station may include a weight scale and any one or more of the various other components of the station **2900** as discussed above. Still referring to FIG. **205**, the system may be portable and the scale portion **2922** may slide into the charger portion **2924**, protecting the integrity of the scale as well as providing convenient portability.

[1019] Thus, this system has many benefits, including, but not limited to, off-board integrity verification of volume sensing at each disposable change; accurate determination of volume at fill to both accurately track current reservoir volume and thus alarm user when volume is low; method for avoiding under-desired-volume filling or over-desired-volume filling; method of filling a disposable with fluid while also pre-priming (or purging the air) the disposable fluid line; and verification of volume regardless of disposable manufacture variability.

[1020] While the principles of the invention have been described herein, it is to be understood by those skilled in the art that this description is made only by way of example and not as a limitation as to the scope of the invention. Other embodiments are contemplated within the scope of the present invention in addition to the exemplary embodiments shown and described herein. Modifications and substitutions by one of ordinary skill in the art are considered to be within the scope of the present invention.

What is claimed is:

1. A method for filling an infusion pump having a reusable housing assembly having a pump, a disposable housing assembly with a reservoir and a septum fluidly connected to the reservoir for filling, a septum access assembly having a first position covering the septum and a second position providing access to the septum, a bias mechanism for biasing the septum access assembly to the first position, and a filling assembly having a needle, and a fluid, the method comprising:

piercing the septum with the needle;
inserting fluid to the reservoir through the needle;
contacting the filling assembly to the septum access assembly;
removing the needle from the septum, whereby the removal allows the bias mechanism to move the septum access assembly from the second position to the first position; and
attaching the reusable housing assembly to the disposable assembly.

2. The method of claim **1** further comprising:

before piercing the septum, contacting the filling assembly to the septum contact assembly to move the septum access assembly from the first position to the second position.

3. The method of claim **2** wherein the septum access assembly has an opening and the method further comprising:

The filling assembly entering the opening to move the access assembly from the first position to the second position.

4. The method of claim **1** where in the septum access assembly has a latched and unlatched position and the septum access assembly is latched in the second position, and the step of piercing the septum with the needle further comprised unlatching the septum access assembly.

5. The method of claim **1** wherein the septum access assembly has a sliding shutter and the step of moving from the second position to the first position further comprises sliding the shutter.

6. The method of claim **2** wherein the septum access assembly has a sliding shutter and the step of moving from the second position to the first position further comprises sliding the shutter.

7. The method of claim **4** wherein the septum access assembly has a sliding shutter and the step of moving from the second position to the first position further comprises sliding the shutter.

8. The method of claim **1** wherein the septum access assembly has a shutter that pivots between the first position and the second position and the step of moving from the second position to the first position further comprises pivoting the shutter.

9. The method of claim **4** wherein the septum access assembly has a shutter that pivots between the first position and the second position and the step of moving from the second position to the first position further comprises pivoting the shutter.

10. The method of claim **1** further comprising:

Priming the disposable assembly.

11. The method of claim **1** wherein the step of attaching the reusable housing assembly to the disposable assembly further comprises rotating the reusable housing assembly relative to the disposable assembly.

12. A method for filling a wearable infusion pump having a reusable housing assembly having a pump and fluid control mechanism, a disposable housing assembly having a reservoir and a septum fluidly connected to the reservoir for filling, a septum access assembly having a first position covering the septum and a second position providing access to the septum, a bias mechanism for biasing the septum access assembly to the first position, a fluid passage for passing the fluid to a patient and a filling assembly having a needle and a fluid, the method comprising:

piercing the septum with the needle;
inserting fluid to the reservoir through the needle;
contacting the filling assembly to the septum access assembly;
removing the needle from the septum, whereby the removal allows the bias mechanism to move the septum access assembly from the second position to the first position; and
attaching the reusable housing assembly to the disposable assembly.

13. The method of claim **12** wherein the reusable housing assembly has a sensor for sensing the attachment of the reusable housing assembly, the method further comprising:
sensing the attachment of the reusable housing assembly to the disposable assembly.

14. The method of claim **12** wherein the reusable housing assembly has a rechargeable battery, the method further comprising:

charging the reusable housing assembly prior to attaching the reusable housing assembly to the disposable assembly.

15. The method of claim **12** further wherein the reusable housing assembly has a volume sensor, the method further comprising: